STATUS OF THE CLAIMS

This claim listing shall supercede any prior listing of the claims.

1-30 (Canceled)

- 31. (Currently amended) A composition comprising an active Clostridial neurotoxin joined to a neuropharmacological agent; wherein the active neurotoxin comprises a TeTx heavy chain and a TeTx light chain, possesses mouse lethality of 3.3 x 10⁵ LD₅₀/mg or greater, [[and]] has binding specificity for and is internalizable by a target nerve cell, is internalizable by the target nerve cell and has enzymatic activity for a target substrate selected from the group consisting of SNAP-25, VAMP, and Cellubrevin.
- 32. (Cancelled)
- 33. (Cancelled)
- 34. (Previously presented) The composition of claim 31 wherein said neuropharmacological agent is an intracellular acting drug.
- 35. (Cancelled)
- 36. (Previously presented) The composition of claim 31 wherein said neuropharmacological agent is selected from

Page 2 of 7.

Serial No. 09/676,053 RCE Submission

the group consisting of a protein synthesis toxin, an inhibitor of neurotransmitter release, neuronal calcium channel blocker, a ribozyme and an oligonucleotide.

- 37. (Previously presented) The composition of claim 31 wherein the active Clostridial neurotoxin is an active tetanus neurotoxin.
- 38. (Currently amended) A pharmaceutical composition for treatment of a neuromuscular dysfunction in a mammal, comprising an active Clostridial neurotoxin comprising a TeTx heavy chain and a TeTx light chain, joined to a neuropharmacological agent; and a pharmaceutically acceptable excipient; wherein the active neurotoxin possesses mouse lethality of 3.3 x 10⁵ LD₅₀/mg or greater and has binding specificity for and is internalizable by a target nerve cell, is internalizable by the target nerve cell and has enzymatic activity for a target substrate selected from the group consisting of SNAP-25, VAMP and Cellubrevin.
- 39. (Cancelled)
- 40. (Cancelled)
- 41. (Previously presented) The composition of claim 38 wherein the active Clostridial neurotoxin is an active tetanus neurotoxin.

- 42. (Previously presented) The pharmaceutical composition of claim 38 wherein the neuromuscular dysfunction is characterized by uncontrollable muscle spasms.
- 43. (Previously presented) The composition of either of claims 31 or 38 wherein the neuropharmacological agent is an inhibitor of neurotransmitter release.
- 44. (Previously presented) The composition of either of claims 31 or 38 wherein the neuropharmacological agent is an active ingredient for treatment of botulism or tetanus.
- 45. (Currently amended) The composition of either of claims 31 or 38 wherein the neuropharmacological agent is selected from the group consisting of a GABA agonist, a neuronal calcium channel agonist, an adenosine agonist, a glutamate antagonist, an inhibitor of neurotransmitter release, a protein synthesis toxin, a zinc-dependent protease inhibitor, a neuronal growth factor, an antiviral agent, a nicotinic antagonist, a neuronal calcium channel blocker, an acetylcholine esterase inhibitor, a potassium channel activator, a vasamicol inhibitor, a ribozyme and a transcribable gene.